



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/CEMENT/2016-17

Date: 22.08.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	Executive Engineer, KRIDL, Bangalore.
*NAME OF THE WORK	:	Improvements to roads and drains at 1 st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016
SAMPLE ID	:	Cement – Sample 3
SAMPLE RECEIVED ON	:	20.08.2016
PERIOD OF TESTING	:	20.08.2016 to 22.08.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- Any Query regarding the report must be reported within 30 days from the date of testing.

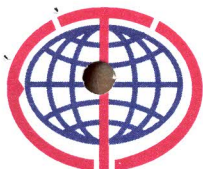
VISHWANATH .C
Quality Manager

Handwritten signature: Jadhav AE

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/SAND-Gradation/2016-17

: 22.08.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
* Agency : Executive Engineer, KRIDL, Bangalore.
* Name of Work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.
Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates - Sample 3
Sample Received on : 20.08.2016
Date of Testing : 22.08.2016



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.70	90-100	90-100	90-100	95-100
2.36	76.90	60-95	75-100	85-100	95-100
1.18	55.70	30-70	55-90	75-100	90-100
600 Micron	26.80	15-34	35-59	60-79	80-100
300 Micron	13.30	5-20	8-30	12-40	15-50
150 Micron	5.10	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager

Signature
AE



#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/AGG/GR/2016-17

: 22.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : Executive Engineer, KRIDL, Bangalore.

* Name of Work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 3

Sample Received on : 20.08.2016

Date of Testing : 22.08.2016



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.35	95-100	85-100
20	36.25	30-70	0-20
10	11.40	10-35	0-5
4.75	2.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Zadha
AE

VISHWANATH.C
Quality Manager



#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/AGG/GR/2016-17

: 22.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : Executive Engineer, KRIDL, Bangalore.

* Name of Work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm) - Sample 3

Sample Received on : 20.08.2016

Date of Testing : 22.08.2016



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.22	95-100	85-100
10	32.92	25-55	0-20
4.75	2.02	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Jaadha
AE

Vishwanath
VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/STEEL/2016-17

23.08.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Executive Engineer**, KRIDL, Bangalore.

Name of the work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

Date of Test : 23.08.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.10	O.K	O.K

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Zadha
AE



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/STEEL/2016-17

23.08.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Vidyanarayapura Sub Division, BBMP, Bangalore.

Agency : **Executive Engineer**, KRIDL, Bangalore.

Name of the work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

Date of Test : 23.08.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Jadhav
AE



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/CUBE/2016-17

22.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

*Agency : Executive Engineer, KRIDL, Bangalore.

*Name of the work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

*Sample ID : RCC Drain Bottom Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 22.09.2016



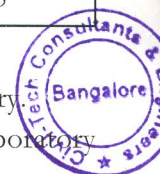
Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.08.2016	22.09.2016	8.263	499.8	22.21
2	25.08.2016	22.09.2016	8.147	485.2	21.56
3	25.08.2016	22.09.2016	8.362	512.6	22.78

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Signature
AB

Signature
VISHWANATH .C
Quality Manager





CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/CUBE/2016-17

22.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

*Agency : Executive Engineer, KRIDL, Bangalore.

*Name of the work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

*Sample ID : RCC Drain Bottom Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 22.09.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.08.2016	22.09.2016	8.267	503.6	22.38
2	25.08.2016	22.09.2016	8.365	516.4	22.95
3	25.08.2016	22.09.2016	8.472	529.8	23.55

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Jadhav

Vishwanath
VISHWANATH.C
Quality Manager



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/CUBE/2016-17

26.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

*Agency : Executive Engineer, KRIDL, Bangalore.

*Name of the work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

*Sample ID : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 26.09.2016



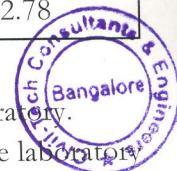
Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.08.2016	26.09.2016	8.347	488.6	21.72
2	29.08.2016	26.09.2016	8.452	496.8	22.08
3	29.08.2016	26.09.2016	8.521	512.6	22.78

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Jadha
NE

VISHWANATH .C
Quality Manager





CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.10/CSR-08/123i/CUBE/2016-17

26.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

*Agency : Executive Engineer, KRIDL, Bangalore.

*Name of the work : Improvements to roads and drains at 1st A main Nanjappa Layout in Ward No.10, BBMP, Bangalore.

Reference : BBMP/AEE/VSD/51/2016-17 Dated: 20.08.2016

*Sample ID : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

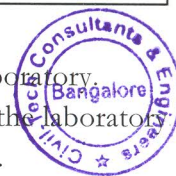
Sample Received on : 26.09.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.08.2016	26.09.2016	8.267	495.2	22.01
2	29.08.2016	26.09.2016	8.368	517.3	22.99
3	29.08.2016	26.09.2016	8.475	522.6	23.23

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



Jadhav
AE

Vishwanath.C
Quality Manager